

DETERMINATION OF AIR VOIDS IN COMPACTED BITUMINOUS MIXTURES

(A Modification of AASHTO Designation T 269)

SCOPE

1. (a) This procedure is used to determine the air voids in compacted bituminous mixtures, and is applicable for specimens which are either laboratory compacted or field compacted.

(b) See Appendix A1 of the Materials Testing Manual for information regarding the procedure to be used for rounding numbers to the required degree of accuracy.

(c) The percent air voids shall be calculated using the maximum density of the bituminous mixture from the Rice Test (Arizona Test Method 417), and the bulk density of the compacted bituminous mixture (Arizona Test Method 415).

CALCULATION

2. Calculate percent air voids as follows:

$$\text{Percent Air Voids} = \left[1 - \frac{\text{Bulk Density}}{\text{Maximum Density}} \right] \times 100$$

REPORT

3. The percent voids shall be reported to the nearest 0.1%.